

WHAT IS CLAIMED IS:

1. A transmissive screen comprising a Fresnel lens portion having Fresnel lens components on the light-exiting surface thereof; and a microlens array portion disposed at the light-exiting surface side of the Fresnel lens portion and having many microlenses on a light-incident surface thereof, wherein the microlenses of the microlens array portion are arrayed vertically and horizontally in such a way that adjacent microlenses have common sides and the array is rotated by 45°.
2. The transmissive screen according to claim 1, wherein the microlenses have larger vertical and horizontal array pitches than the oblique array pitches at an angle of 45°.
3. The transmissive screen according to claim 1, further comprising a light diffusing portion disposed between the Fresnel lens portion and the microlens array portion.
4. The transmissive screen according to claim 1, further comprising a diffusing sheet disposed at the light-exiting surface side of the microlens array portion.
5. The transmissive screen according to claim 4, further comprising a light shield member disposed between the microlens array portion and the diffusing sheet, the light shield member having apertures near focal points of the microlenses.
6. A rear projector comprising an optical projecting unit and a transmissive screen according to claim 1.